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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/697,788

10/30/2003

Michael J. Bullinger

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MERCHANT & GOULD PC  
P.O. BOX 2903  
MINNEAPOLIS, MN 55402-0903

EXAMINER

A, PHI DIEU TRAN

ART UNIT

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/697,788	<b>Applicant(s)</b> BULLINGER, MICHAEL J.	
	<b>Examiner</b> PHI D. A	<b>Art Unit</b> 3633	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 July 2010.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 8-25, 28 and 29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 8-25, 28-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                    | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

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1. The Declaration under 37 CFR 1.132 filed 7/28/2010 is sufficient to overcome the 112 First paragraph rejection of claim 10.

The 112 first paragraph is hereby withdrawn.

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 8, 11, 13-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Knudson (5845435).

Per claims 8, 11, 13-16, Knudson (figures 10-11) shows a seamless gutter and cover system comprising a gutter (96, seamless as it is made of one piece) formed from a first coil of material having a front face(97), a bottom and a rear portion (98) extending upward to a top segment, a cover (99) formed from a second coil of material, the cover extends over the gutter and has a debris separation portion (106) extending above the front face of the gutter, a lip portion (99a) extending upward and wrapping over the top segment (98a) of the gutter, the lip portion and the top segment of the gutter are continuously pressed, and fixed together along their entire length to form an integral gutter and cover assembly (the part 99a appears to press fit over part 98a and together forming an integral part), the gutter is made of a first material and the cover is made of a second material, the gutter and cover are permanently integrally connected together( unless someone uses forces to separate them, the gutter and cover are permanently

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integrally connected), mounting means for securing the system to the edge of the roof, the mounting means further comprising mounting hardware(75) for securing the system to the edge of the roof, the mounting hardware extends through a hole in the gutter and cover system (the system including part 131), the mounting means is repeatedly positioned at determined distances along the gutter and cover system (figure 9).

Per claims 17-21, Knudson (figures 10-11) shows a gutter and cover system comprising a gutter (96) formed from a first coil of material having a front face(97), a bottom and a rear portion (98) extending upward to a top segment, a cover system (99) formed from a second coil of material, the cover extends over the gutter and has a debris separation portion (106) extending above the front face of the gutter, a lip portion (99a) extending upward and wrapping over the top segment of the gutter, the lip portion and the top segment of the gutter are pressed and fixed together along their length to form an integral gutter and cover assembly (the part 99a appears to press fit over part 98a and together forming an integral part), an internal support member (131) for reinforcing the gutter and the cover, the internal support member further comprising a debris separation support segment (108) juxtaposed to an underside of the debris separation portion of the cover and having a profile with an upper edge matching the debris separation portion of the cover (the curve of the support matches the curve of the cover), a rear portion (141) extending downward to a front face segment, fixation means (75) for securing the internal support member with respect to the gutter and cover system, the fixation means further comprising mounting hardware for securing the internal support member to the gutter and cover system, the mounting hardware (75) extends through a hole in the gutter and into a hole in the debris separation

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support segment (148), the internal support member is repeatedly positioned at determined distances along the gutter and cover system, the front face defines a continuously curved profile.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Knudson (5845435) in view of Middleby (4263756).

Knudson shows a seamless gutter and cover system comprising a gutter formed from a first coil of material having a front face, a bottom and a rear portion extending upward to a top segment (98a), a cover (99) formed from a second coil of material, wherein the cover extends over the gutter and has a debris separation portion extending above the front face of the gutter, and a lip portion (99a) extending upward and wrapping over the top segment of the gutter, the top segment and the lip portion interlock, the part (99a) is continuously pressed against the part (98a) along their entire length.

Knudson does not show the top segment of the gutter and the flange/lip portion of the cover are continuously crimped together to interlock the top segment with the flange/lip portion.

Middleby discloses crimping of a panel edge (12) with a gutter recess (16) to assemble the structures together (col 1 lines 60-64), the entire edge being located within the recess (16) and crimped together.

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It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Knudson's structure to show the top segment of the gutter and the flange/lip portion of the cover are crimped together to interlock the top segment with the flange/lip portion because crimping two attached structures together would enable the secured fastening of the structures together as taught by Middleby, and one having ordinary skill in the art would have found it obvious continuously crimp Knudson's modified structure as it provides enhanced secured attachment of the cover to the gutter along the attachment edge.

5. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Knudson (5845435) in view of Wade and Richard ((6732477)).

Knudson shows all the claimed limitations except for the first material comprising aluminum and the second material comprising copper.

Wade discloses a cover (10) made of copper (col 2 lines 1-4).

Richard discloses a gutter of aluminum.

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Knudson's structure to show the first material comprising aluminum as taught by Richard and the second material made of copper as taught by Wade because it is well known in the art to form gutters out of aluminum as it provides for rust resistance and light weight, and having the cover made of copper as taught by Wade, would have been obvious to one having ordinary skill in the art as copper provides for strong light weight support while being rust resistance also.

6. Claims 9, 22, 24, 28-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knudson (5845435) in view of Beam (4604837).

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Knudson shows all the claimed limitations including an internal support member (131) having a pooling segment profile (147) juxtaposed to an underside of the section of the cover, a rear portion (141) extending downward to a front face segment (134) except for the cover comprising a kinetic energy dispersion section intermediate the rear portion of the gutter and the debris separation portion of the cover.

Beam (figures 2-6) discloses a kinetic energy dispersion section (110, 140, 10, 48) intermediate the rear portion of the gutter and the debris separation portion of the cover to enable the slowing of rain water so that rain water would properly drain into the gutter, the dispersion sections being concave.

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Knudson's structure to show the cover comprising a kinetic energy dispersion section intermediate the rear portion of the gutter and the debris separation portion of the cover as taught by Beam because it would allow for the slowing of rain water so that rain water would properly drain into the gutter.

Per claims 22, 24, 28-29 Knudson as modified shows a concave pooling portion intermediate the rear portion of the gutter and the curving front portion of the cover.

7. Claims 23, 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knudson (5845435) in view of Beam (4604837).

Knudson as modified shows all the claimed limitations except for the gutter front face defining a K-style or square profile.

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Knudson's modified structure to show the gutter front face defining a K-

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style or square profile because it would have been an obvious matter of engineering design choice to have the face being K-style or square profile since applicant has not disclosed that the different profiles solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with the front face being continuously curved.

### ***Response to Arguments***

2. Applicant's arguments filed 7/28/2010 have been fully considered but they are not persuasive.

With respect to the Declaration and Knudson, examiner respectfully states that the reference as modified by Middleby shows the structures being crimped together. Modifying Knudson with Middleby to show crimping would enable the secured fastening of the structures together. The combination thus would prevent the situation where the parts are accidentally separated. Also, crimping the parts together still allows a person to remove the cover if desired. The crimping only makes the attachment of the parts together stronger. The crimped parts are still removable from each other if desired. The Declaration is not persuasive and does not overcome the art rejection as set forth above.

With respect to Knudson, the reference also shows the parts pressed together (not crimped together) along its entire length. The reference figure 9 shows the rear top edge of the gutter and the rear edge of the cover being of the same length. Figure 11 thus shows the part 99a pressing against part 98a along its entire length as claimed.

Knudson as modified as set forth above, shows the parts being continuously crimped as claimed.



***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phi D A whose telephone number is 571-272-6864. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Glessner can be reached on 571-272-6754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Phi D A/  
Primary Examiner, Art Unit 3633

Phi Dieu Tran A

10/8/2010